PERSONAL DETAILS

Name:	**Rajit Sanghvi**
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Birth Date:	01. June. 1995
Nationality:	Indian
Family Status:	Single
GitHub:	https://github.com/sanghvirajit
Portfolio:	https://sanghvirajit19.github.io/Portfolio/
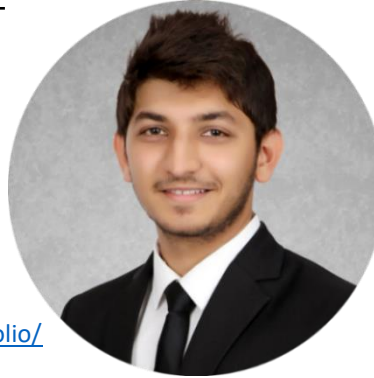
PROFESSIONAL EXPERIENCE

10/2020 - current	Universität Koblenz-Landau, Koblenz, Germany. **Research Associate, Institute of Mathematics and Computer Science** • **Research** in **Mathematical Optimization**, and **Deep Neural Networks (DNN).** • Parallel training of Deep Neural Networks. • Computational Programming using powerful linear algebra package **EIGEN in C++** and **Data Analysis/Visualization** using **Python** packages like **NumPy, Pandas, Matplotlib,** and **Seaborn.**
03/2021 - current	Neptune.ai **Technical Writer, Freelance** • I write about **Deep learning** using the deep learning framework like **Tensorflow** and **PyTorch**, and the ML experiment tracking tool Neptune. • https://neptune.ai/blog/early-stopping-with-neptune
05/2020 - 09/2020	Simerics GmbH, Rottenburg am Neckar, Germany. **Internship, Research and Development** • Development of **Python library** for mixed timescale coupling using **Python packages** like **NumPy, Pandas, Matplotlib, and Seaborn.** • Implementation of **numerical Fluid-Structure Interaction (FSI) coupling algorithms** for FSI coupling adapters in Python.
05/2019 -11/2019	IAV GmbH, Chemnitz, Germany. **Master's thesis, Department of Internal Combustion Engine Simulation.** • Investigation of the Turbine Downstream to increase the turbine pressure ratio and thus the turbine performance. Perform meshing and 3D- CFD simulations of the models using CFD-tool StarCCM+.
10/2018 - 03/2019	Bosch Rexroth AG, Lohr am main, Germany. **Internship, Industrial Hydraulics Department.** • **Shape optimization** of hydraulic valves and pumps using the adjoint method with CFD simulation to determine the optimal design with the objective function of minimizing pressure drop.

LANGUAGES

German (B1)	●●●○○
English	●●●●●

SKILLS

Keras	●●●○○
TensorFlow	●●●○○
PyTorch	●●●●○
SQL	●●●○○
LaTex	●●●●○
Numpy Pandas, Matplotlib, Seaborn	●●●●○

PROGRAMMING- SKILLS

Python	●●●●○
C/C++	●●●●○
Matlab	●●●○○

OPERATING SYSTEMS

Windows	●●●●●
Linux	●●●●●

HOBBIES

Cooking	
Reading	
Table-Tennis	

09/2016 -09/2017	Bosch Rexroth (India) Pvt Ltd. **Design Engineer, Hydraulic Control Department.** • Design and testing of industrial hydraulic valves. Creation of 2D/3D technical drawings with CAD programs.

EDUCATION

10/2017 -09/2020	**Masters of Science in Computational Science and Engineering** Ruhr-Universität Bochum, Germany Abschlussnote: 1.6
06/2012 -03/2016	**Bachelor of Technology in Mechanical Engineering** Indus University, India Abschlussnote: 9.22/10

ONLINE COURSE

May 2021	**The Complete SQL BootCamp 2021** Udemy • Read and write complex queries to a database using **PostgreSQL** and **PgAdmin**. • Retrieve and Analyzing data from the database. • **Using psycopg2** library in Python to interact with a database in PostgreSQl.

VOLUNTEERING EXPERIENCE

02/2018 - 03/2019	**Vice President, Student Council** Ruhr-Universität Bochum, Germany • Representing the student body at various events and other meetings. • Planning and implementing various social events.

AWARDS

2017	**Gold Medal** Indus Universität, India Awarded for academic excellence in the bachelor's degree program.

REFERENCES

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Koblenz, 06/2021

Place, date - signature